



United States Patent Application for:

Eight-Stroke Internal Combustion Engine Utilizing A Slave Cylinder

4 ABSTRACT

By the utilizing of a slave cylinder working in coordination with a master cylinder,  
6 the slave cylinder both receives cool atmospheric air and receives hot, partially  
un-burnt exhaust gases from the master cylinder to create a second power-  
8 stroke in the slave cylinder. With the two coordinating cylinders, the entire  
working process is from 0 to 810 degrees of revolution crankshaft. The master  
10 cylinder cycles work from 0 to 720 degrees of revolution and slave cylinder  
cycles work from 90 to 810 degrees of revolution. The master cylinder begins to  
12 intake air and fuel at 0 degree of revolution and slave cylinder begins to intake air  
at 90 degrees of revolution. There is an angle of 60 -120 degrees differences  
14 between master and slave cylinder, where the slave cylinder is trailing the  
master.

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